Physical Properties of the Soils

Geneva County, Alabama

NOTE: Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
AaB:														
Alaga	0-6	---	---	2-12	1.60-1.75	5.95-19.98	0.05-0.09	0.0-2.9	0.5-3.0	.10	.10	5	2	134
	6-99	---	---	2-12	1.60-1.75	5.95-19.98	0.05-0.09	0.0-2.9	0.0-0.5	.10	.10			
ApA:														
Alpin	0-3	---	---	1-12	1.35-1.55	1.98-5.95	0.05-0.10	0.0-2.9	0.0-2.0	.10	.10	5	1	180
	3-54	---	---	1-7	1.40-1.55	5.95-19.98	0.03-0.09	0.0-2.9	0.0-0.5	.10	.10			
	54-99	---	---	5-8	1.45-1.65	1.98-5.95	0.06-0.09	0.0-2.9	0.0-0.5	.10	.10			
ArA:														
Ardilla	0-9	---	---	4-17	1.30-1.70	1.98-5.95	0.10-0.15	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	9-30	---	---	18-35	1.40-1.60	0.57-1.98	0.10-0.14	0.0-2.9	---	.28	.28			
	30-60	---	---	20-40	1.50-1.70	0.20-0.57	0.10-0.15	0.0-2.9	---	.28	.28			
Bb:														
Bibb	0-12	---	---	2-18	1.40-1.65	0.57-1.98	0.15-0.20	0.0-2.9	1.0-3.0	.28	.28	5	5	56
	12-60	---	---	2-18	1.45-1.75	0.57-1.98	0.10-0.20	0.0-2.9	0.5-1.0	.37	.37			
Osier	0-8	---	---	10-15	1.35-1.60	5.95-19.98	0.10-0.15	0.0-2.9	2.0-5.0	.15	.15	5	3	86
	8-48	---	---	1-10	1.40-1.60	5.95-19.98	0.03-0.10	0.0-2.9	---	.10	.10			
	48-75	---	---	2-5	1.40-1.60	19.98-19.98	0.02-0.05	0.0-2.9	---	.05	.05			
BK:														
Bigbee	0-17	---	---	4-10	1.40-1.50	5.95-19.98	0.05-0.10	0.0-2.9	0.5-2.0	.10	.10	5	---	---
	17-80	---	---	1-10	1.40-1.50	5.95-19.98	0.05-0.08	0.0-2.9	---	.17	.17			
Kalmia	0-14	---	---	4-12	1.60-1.75	1.98-5.95	0.06-0.10	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	14-32	---	---	18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9	---	.24	.24			
	32-60	---	---	2-10	1.60-1.75	5.95-19.98	0.03-0.06	0.0-2.9	---	.10	.10			
Eunola	0-10	---	---	10-20	1.35-1.65	1.98-5.95	0.10-0.14	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	10-26	---	---	18-35	1.35-1.65	0.57-1.98	0.12-0.17	0.0-2.9	0.2-1.0	.28	.28			
	26-52	---	---	18-45	1.30-1.60	0.57-1.98	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32			
	52-56	---	---	8-25	1.35-1.65	1.98-5.95	0.10-0.16	0.0-2.9	0.0-0.5	.24	.24			
	56-65	---	---	2-11	1.45-1.75	5.95-19.98	0.02-0.06	0.0-2.9	0.0-0.5	.20	.20			

Physical Properties of the Soils, cont.

Geneva County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
BoB:														
Bonifay	0-57	---	---	6-12	1.50-1.60	5.95-19.98	0.05-0.10	0.0-2.9	0.5-3.0	.10	.10	5	2	134
	57-63	---	---	15-35	1.60-1.70	0.57-1.98	0.10-0.15	0.0-2.9	0.0-0.5	.24	.24			
	63-73	---	---	20-45	1.60-1.70	0.20-0.57	0.10-0.15	0.0-2.9	0.0-0.5	.24	.24			
By:														
Byars	0-13	---	---	15-35	1.20-1.50	0.57-1.98	0.15-0.20	0.0-2.9	2.0-9.0	.37	.37	5	6	48
	13-43	---	---	35-60	1.30-1.60	0.06-0.20	0.14-0.18	3.0-5.9	0.5-1.0	.32	.32			
	43-73	---	---	35-60	1.30-1.60	0.06-0.20	0.14-0.18	3.0-5.9	0.0-0.5	.32	.32			
	73-79	---	---	---	---	---	---	---	0.0-0.5	---	---			
Cb:														
Chastain	0-5	---	---	15-35	1.20-1.40	0.20-0.57	0.12-0.18	3.0-5.9	1.0-6.0	.32	.32	4	5	56
	5-52	---	---	35-60	1.30-1.50	0.06-0.20	0.12-0.16	3.0-5.9	1.0-3.0	.37	.37			
	52-72	---	---	2-10	1.50-1.70	5.95-19.98	0.03-0.06	0.0-2.9	1.0-3.0	.10	.10			
Bibb	0-12	---	---	2-18	1.40-1.65	0.57-1.98	0.15-0.20	0.0-2.9	1.0-3.0	.28	.28	5	5	56
	12-60	---	---	2-18	1.45-1.75	0.57-1.98	0.10-0.20	0.0-2.9	0.5-1.0	.37	.37			
DoA:														
Dothan	0-13	---	---	10-18	1.30-1.70	1.98-5.95	0.08-0.13	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-33	---	---	18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9	---	.28	.28			
	33-60	---	---	18-40	1.45-1.70	0.20-0.57	0.08-0.12	0.0-2.9	---	.28	.28			
DoB:														
Dothan	0-13	---	---	10-18	1.30-1.70	1.98-5.95	0.08-0.13	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-33	---	---	18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9	---	.28	.28			
	33-60	---	---	18-40	1.45-1.70	0.20-0.57	0.08-0.12	0.0-2.9	---	.28	.28			
DoC:														
Dothan	0-13	---	---	10-18	1.30-1.70	1.98-5.95	0.08-0.13	0.0-2.9	0.5-1.0	.24	.24	5	3	86
	13-33	---	---	18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9	---	.28	.28			
	33-60	---	---	18-40	1.45-1.70	0.20-0.57	0.08-0.12	0.0-2.9	---	.28	.28			
EsB:														
Esto	0-8	---	---	7-12	1.45-1.65	5.95-19.98	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	5	2	134
	8-13	---	---	26-45	1.45-1.60	0.57-1.98	0.12-0.17	3.0-5.9	0.5-1.0	.32	.32			
	13-62	---	---	35-60	1.30-1.55	0.06-0.20	0.12-0.18	3.0-5.9	0.0-0.5	.32	.32			
EsC:														
Esto	0-8	---	---	7-12	1.45-1.65	5.95-19.98	0.06-0.10	0.0-2.9	0.5-1.0	.17	.17	5	2	134
	8-13	---	---	26-45	1.45-1.60	0.57-1.98	0.12-0.17	3.0-5.9	0.5-1.0	.32	.32			
	13-62	---	---	35-60	1.30-1.55	0.06-0.20	0.12-0.18	3.0-5.9	0.0-0.5	.32	.32			

Physical Properties of the Soils, cont.

Geneva County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
Eu:														
Eunola	0-10	---	---	10-20	1.35-1.65	1.98-5.95	0.10-0.14	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	10-26	---	---	18-35	1.35-1.65	0.57-1.98	0.12-0.17	0.0-2.9	0.2-1.0	.28	.28			
	26-52	---	---	18-45	1.30-1.60	0.57-1.98	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32			
	52-56	---	---	8-25	1.35-1.65	1.98-5.95	0.10-0.16	0.0-2.9	0.0-0.5	.24	.24			
	56-65	---	---	2-11	1.45-1.75	5.95-19.98	0.02-0.06	0.0-2.9	0.0-0.5	.20	.20			
FuB:														
Fuquay	0-34	---	---	2-10	1.60-1.70	5.95-19.98	0.04-0.09	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	34-45	---	---	10-35	1.40-1.60	0.57-1.98	0.12-0.15	0.0-2.9	---	.20	.20			
	45-96	---	---	20-35	1.40-1.60	0.06-0.20	0.10-0.13	0.0-2.9	---	.20	.20			
	96-99	---	---	---	---	---	---	---	---	---	---			
Gr:														
Grady	0-5	---	---	15-20	1.25-1.45	0.57-1.98	0.10-0.15	0.0-2.9	1.0-3.0	.10	.10	5	3	86
	5-11	---	---	20-35	1.40-1.55	0.20-0.57	0.10-0.15	0.0-2.9	---	.10	.10			
	11-62	---	---	45-65	1.50-1.60	0.06-0.20	0.12-0.16	3.0-5.9	---	.10	.10			
KaA:														
Kalmia	0-14	---	---	4-12	1.60-1.75	1.98-5.95	0.06-0.10	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	14-32	---	---	18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9	---	.24	.24			
	32-60	---	---	2-10	1.60-1.75	5.95-19.98	0.03-0.06	0.0-2.9	---	.10	.10			
Le:														
Leaf	0-9	---	---	12-20	1.30-1.50	0.06-0.20	0.12-0.18	0.0-2.9	1.0-3.0	.28	.28	4	---	---
	9-72	---	---	35-60	1.50-1.60	0.00-0.06	0.18-0.21	6.0-8.9	---	.32	.32			
Lenoir	0-8	---	---	6-20	1.30-1.50	0.57-1.98	0.14-0.18	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	8-75	---	---	35-60	1.20-1.35	0.06-0.20	0.13-0.15	3.0-5.9	---	.32	.32			
LuB:														
Lucy	0-24	---	---	1-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	24-35	---	---	10-30	1.40-1.60	1.98-5.95	0.10-0.12	0.0-2.9	---	.24	.24			
	35-70	---	---	20-45	1.40-1.60	0.57-1.98	0.12-0.14	0.0-2.9	---	.28	.28			
OrA:														
Orangeburg	0-7	---	---	7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	7-12	---	---	7-18	1.50-1.65	1.98-5.95	0.09-0.12	0.0-2.9	---	.20	.20			
	12-54	---	---	18-35	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
	54-64	---	---	20-45	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
OrB:														
Orangeburg	0-7	---	---	7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	7-12	---	---	7-18	1.50-1.65	1.98-5.95	0.09-0.12	0.0-2.9	---	.20	.20			
	12-54	---	---	18-35	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
	54-64	---	---	20-45	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			

Physical Properties of the Soils, cont.

Geneva County, Alabama

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permeability (Ksat)	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct					
OrC:														
Orangeburg	0-7	---	---	7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	7-12	---	---	7-18	1.50-1.65	1.98-5.95	0.09-0.12	0.0-2.9	---	.20	.20			
	12-54	---	---	18-35	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
	54-64	---	---	20-45	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
Pm:														
Plummer	0-50	---	---	1-10	1.35-1.65	5.95-19.98	0.03-0.10	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	50-72	---	---	15-30	1.50-1.70	0.20-1.98	0.07-0.15	0.0-2.9	---	.15	.15			
Ra:														
Rains	0-12	---	---	5-20	1.30-1.60	1.98-5.95	0.10-0.14	0.0-2.9	1.0-6.0	.20	.20	5	3	86
	12-40	---	---	18-35	1.30-1.60	0.57-1.98	0.11-0.15	0.0-2.9	0.5-1.0	.24	.24			
	40-62	---	---	18-40	1.30-1.50	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.28	.28			
	62-79	---	---	15-45	1.30-1.60	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.28	.28			
RbA:														
Red Bay	0-6	---	---	7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	6-20	---	---	10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9	---	.15	.15			
	20-52	---	---	18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9	---	.17	.17			
	52-72	---	---	20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
RbB:														
Red Bay	0-6	---	---	7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	6-20	---	---	10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9	---	.15	.15			
	20-52	---	---	18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9	---	.17	.17			
	52-72	---	---	20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
RbC:														
Red Bay	0-6	---	---	7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	.20	.20	5	3	86
	6-20	---	---	10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9	---	.15	.15			
	20-52	---	---	18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9	---	.17	.17			
	52-72	---	---	20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
RsD:														
Red Bay	0-6	---	---	4-12	1.45-1.60	5.95-19.98	0.06-0.11	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	6-20	---	---	10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9	---	.15	.15			
	20-52	---	---	18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9	---	.17	.17			
	52-72	---	---	20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9	---	.24	.24			
TrB:														
Troup	0-53	---	---	2-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	53-80	---	---	15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9	---	.20	.20			
TrC:														
Troup	0-53	---	---	2-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	53-80	---	---	15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9	---	.20	.20			